Appendix 9-B Cost List for MDOT-Approved BMPs

Estimated Cost List for MDOT-Approved BMPs

Costs are reflective of January 2004 prices (ENR Construction Cost Index = 6825). (Sources used: MDOT Quarterly Bid Reports, RS Means 2004 Site Work and Landscaping Cost Data.) These costs should be used for planning purposes only. For current prices contact Specs and Estimates Design Support Area.

Aggregate Cover (E&S-8)	BMP Name	Unit	Estimated COST per Unit
BMP Inspection and Maintenance Plan Check Dam (E&S-37) Clean and Maintain Storm Drain Channels Clean and Maintain Storm Inlet and Catch Basins Cofferdam (E&S-34) Dewatering by Filter Bag/Sediment Basin (E&S-18) Diversion Dike (E&S-10) Drop Inlet Sediment Trap (E&S-31) Dust Control (E&S-4) Employee Training Energy Dissipators (E&S-19) Gravel Filter Berm (E&S-13) Inlet Protection Fabric Drop (E&S-29) Inlet Protection Geotextile and Stone (E&S-12) Litter Control (Maintenance) Materials Management Plan Minimizing Effects of Highway De-icing (Maintenance) Mulch Blankets and High Velocity Mulch Blankets (E&S-37) Plastic Sheets or Geotextile Cover (E&S-27) Riprap (E&S-7) Sediment Basin (Size > 5 CY.) (E&S-21) EA Sand Pence and Dune Stabilization (E&S-45) LF Sediment Basin (Size > 5 CY.) (E&S-21) LF Sediment Basin (Size > 5 CY.) (E&S-21) LF Sediment Basin (Size > 5 CY.) (E&S-21) CY S27, includes maintenance	Aggregate Cover (E&S-8)	SY	\$4.40
Check Dam (E&S-37)	Benches (E&S-9)	HRS	\$140 per hour of dozer time
Clean and Maintain Storm Drain Channels Clean and Maintain Storm Inlet and Catch Basins Cofferdam (E&S-34) Dewatering by Filter Bag/Sediment Basin (E&S-18) Diversion Dike (E&S-10) Cry \$1.75 Drop Inlet Sediment Trap (E&S-31) Dust Control (E&S-4) Employee Training Energy Dissipators (E&S-19) Gravel Access Approach (E&S-14) Inlet Protection Fabric Drop (E&S-29) Inlet Protection Geotextile and Stone (E&S-30) Intercepting Ditch and Diversion Dike (E&S-12) Litter Control (Maintenance) Materials Management Plan Minimizing Effects of Highway De-icing (Maintenance) Mulch Blankets and High Velocity Mulch Blankets (E&S-28) Mulching and Mulch Anchoring (E&S-28) Permanent/ Temporary Seeding (E&S-30) Permanent/ Temporary Seeding (E&S-37) Plastic Sheets or Geotextile Cover (E&S-27) Ripra (E&S-7) Sand and Stone Bags (E&S-24) Sediment Basin (Size > 5 CY.) (E&S-21) Cry \$37.50 (riprap) EA \$130 + \$13.50/CY for maintenance Dependant on dust palliative \$130 + \$13.50/CY for maintenance \$140 + \$130 + \$13.50/CY for maintenance TON \$1310 per ton of dust palliative \$140 + \$130 + \$13.50/CY for maintenance Cry \$37.50 (riprap) Cry \$37.50 (riprap) Geotextile Bag (F&S-19) EA N/A (usually about \$4.40/SY) Dependant on runoff flow rate and depth of groundwater Dependant on size (usually \$2.10/LF for fabric) Intercepting Ditch and Diversion Dike (E&S-30) EA \$80 Intercepting Ditch and Diversion Dike (E&S-12) STA \$625 Litter Control (Maintenance) N/A Materials Management Plan N/A Minimizing Effects of Highway De-icing (Maintenance) N/A Mulch Blankets and High Velocity Mulch Blankets (E&S-33) Fy \$0.20 Outtet Protection Cry \$36.25 Permanent/ Temporary Seeding (E&S-3) Dependent on pipe size Pependent on pipe size Pependent on pipe size Sry \$2.10 EA \$10 + \$1	BMP Inspection and Maintenance Plan	N/A	
Clean and Maintain Storm Inlet and Catch Basins Cofferdam (E&S-34) Dewatering by Filter Bag/Sediment Basin (E&S-18) Diversion Dike (E&S-10) CY \$1.75 Drop Inlet Sediment Trap (E&S-31) Dust Control (E&S-4) Dust Control (E&S-4) TON \$310 per ton of dust palliative Employee Training Energy Dissipators (E&S-19) Geotextile Silt Fence (E&S-26) Gravel Access Approach (E&S-14) Gravel Filter Berm (E&S-13) Inlet Protection Fabric Drop (E&S-29) Inlet Protection Geotextile and Stone (E&S-12) Litter Control (Maintenance) Materials Management Plan Minimizing Effects of Highway De-icing (Maintenance) Mulching and Mulch Anchoring (E&S-28) Cy \$37.50 (riprap) CY \$35.50 (riprap) CY \$37.50 (riprap) CY \$35.50 (riprap) CY \$35.50 (riprap) CY \$37.50 (riprap) CY \$37.50 (riprap) CY \$37.50 (riprap) CY \$35.50 (riprap) CY \$37.50 (riprap) CY \$37.50 (riprap) CY \$35.50 (riprap) CY \$37.50 (riprap) CY \$35.50 (riprap) CY \$37.50 (Check Dam (E&S-37)	LF	\$13.00
Cofferdam (E&S-34) Dewatering by Filter Bag/Sediment Basin (E&S-18) Diversion Dike (E&S-10) Drop Inlet Sediment Trap (E&S-31) EA \$181 per filter bag CY \$1.75 Drop Inlet Sediment Trap (E&S-31) Dust Control (E&S-4) Employee Training Energy Dissipators (E&S-19) Geotextile Silt Fence (E&S-26) Gravel Access Approach (E&S-14) Gravel Filter Berm (E&S-13) Infiltration Trench Inlet Protection Fabric Drop (E&S-29) Inlet Protection Geotextile and Stone (E&S-30) Intercepting Ditch (E&S-11) Intercepting Ditch and Diversion Dike (E&S-12) Materials Management Plan Minimizing Effects of Highway De-icing (Maintenance) Mulch Blankets and High Velocity Mulch Blankets (E&S-33) Mulching and Mulch Anchoring (E&S-28) Permanent/ Temporary Seeding (E&S-3) Pipe Drop (E&S-17) Plastic Sheets or Geotextile Cover (E&S-27) Sand and Stone Bags (E&S-24) Sediment Basin (Size > 5 CY.) (E&S-21) CY \$1.175 S18 \$181 per filter bag \$130 + \$13.50/CY for maintenance \$100 (vight) per ton of dust palliative EA \$130 (riprap) \$200 (riprap) \$210 (riprap) \$21	Clean and Maintain Storm Drain Channels		Dependent on channel size
Dewatering by Filter Bag/Sediment Basin (E&S-18) Diversion Dike (E&S-10) Drop Inlet Sediment Trap (E&S-31) Drop Inlet Sediment Trap (E&S-31) EA \$130 + \$13.50/CY for maintenance Dust Control (E&S-4) Employee Training Energy Dissipators (E&S-19) Geotextile Silt Fence (E&S-26) Gravel Access Approach (E&S-14) Gravel Filter Berm (E&S-13) Infiltration Trench Inlet Protection Fabric Drop (E&S-29) Inlet Protection Geotextile and Stone (E&S-30) Intercepting Ditch (E&S-11) Intercepting Ditch and Diversion Dike (E&S-12) Litter Control (Maintenance) Materials Management Plan Minimizing Effects of Highway De-icing (Maintenance) Mulch Blankets and High Velocity Mulch Blankets (E&S-33) Mulching and Mulch Anchoring (E&S-28) Permanent/ Temporary Seeding (E&S-3) Plastic Sheets or Geotextile Cover (E&S-27) Sand and Stone Bags (E&S-24) Sand Fence and Dune Stabilization (E&S-45) Sediment Basin (Size > 5 CY.) (E&S-21) EA \$130 + \$13.50/CY for maintenance TON \$1.75 \$1.75 \$1.90 + \$13.50/CY for maintenance N/A (usually about \$4.40/SY) All (usually about \$4.40/SY) BAR (usually about \$4.50/SY) Dependent on runoff flow rate and depth of groundwater Dependant on size (usually \$2.10/LF for fabric) Intercepting Ditch (E&S-11) STA \$545 SPY \$5625 SYA \$625 SYA \$625 SYA \$625 SYA \$625 SYA \$0.85 SYA \$0.8	Clean and Maintain Storm Inlet and Catch Basins	EA	\$166
Diversion Dike (E&S-10)	Cofferdam (E&S-34)	LS	N/A (usually about \$30/sf of sheeting)
Diversion Dike (E&S-10)	Dewatering by Filter Bag/Sediment Basin (E&S-18)	EA	\$181 per filter bag
Dust Control (E&S-4) Employee Training Energy Dissipators (E&S-19) Geotextile Silt Fence (E&S-26) Gravel Access Approach (E&S-14) Infiltration Trench Inlet Protection Geotextile and Stone (E&S-30) Intercepting Ditch (E&S-11) Intercepting Ditch and Diversion Dike (E&S-12) Litter Control (Maintenance) Materials Management Plan Minimizing Effects of Highway De-icing (Maintenance) Mulching and Mulch Anchoring (E&S-28) Mulching and Mulch Anchoring (E&S-3) Permanent/ Temporary Seeding (E&S-3) Pipe Drop (E&S-17) Plastic Sheets or Geotextile Cover (E&S-27) Riprap (E&S-7) Sediment Basin (Size > 5 CY.) (E&S-21) CY \$37, includes maintenance N/A \$37.50 (riprap) S37.50 (riprap) S37.50 (riprap) S37.50 (riprap) S37.50 (riprap) S47.50 (riprap) S47.60 (susually about \$4.40/SY) Dependant on runoff flow rate and depth of groundwater Dependant on size (usually \$2.10/LF for fabric) S480 Intercepting Ditch (E&S-10) N/A (usually about \$4.50/SY) Dependent on pipe size S47.50 (CY, SY \$37.50/CY S47.50/CY S47.50 (CY, SY \$37.50/CY S47.50 (CY, SY \$7.50 (c) \$7.50 (CY	\$1.75
Employee Training Energy Dissipators (E&S-19) Geotextile Silf Fence (E&S-26) Gravel Access Approach (E&S-14) Gravel Filter Berm (E&S-13) Infiltration Trench Inlet Protection Geotextile and Stone (E&S-30) Intercepting Ditch (and Diversion Dike (E&S-12) Litter Control (Maintenance) Minimizing Effects of Highway De-icing (Maintenance) Mulch Blankets and High Velocity Mulch Blankets (E&S-33) Mulching and Mulch Anchoring (E&S-28) Dependent on runoff flow rate and depth of groundwater Dependant on size (usually \$2.10/LF for fabric) Dependant on size (usually \$2.10/LF for fabric) Dependant on size (usually \$2.10/LF for fabric) STA \$545 SY \$0.25 Mitter Control (Maintenance) N/A Mulch Blankets and High Velocity Mulch Blankets (E&S-33) Mulching and Mulch Anchoring (E&S-28) Outlet Protection CY \$36.25 Permanent/ Temporary Seeding (E&S-3) Pipe Drop (E&S-17) Plastic Sheets or Geotextile Cover (E&S-27) Riprap (E&S-7) Sand and Stone Bags (E&S-24) Sand Fence and Dune Stabilization (E&S-45) Sediment Basin (Size > 5 CY.) (E&S-21) CY \$27, includes maintenance	Drop Inlet Sediment Trap (E&S-31)	EA	\$130 + \$13.50/CY for maintenance
Energy Dissipators (E&S-19) Geotextile Silt Fence (E&S-26) Gravel Access Approach (E&S-14) Gravel Filter Berm (E&S-13) Infiltration Trench Inlet Protection Fabric Drop (E&S-29) Intercepting Ditch (E&S-11) Intercepting Ditch and Diversion Dike (E&S-12) Litter Control (Maintenance) Mulch Blankets and High Velocity Mulch Blankets (E&S-33) Mulching and Mulch Anchoring (E&S-28) Mulching and Mulch Anchoring (E&S-28) Outlet Protection Permanent/ Temporary Seeding (E&S-37) Plastic Sheets or Geotextile Cover (E&S-27) Riprap (E&S-7) Sand and Stone Bags (E&S-24) Sediment Basin (Size > 5 CY.) (E&S-21) EA N/A (usually about \$4.40/SY) N/A (usually about \$4.40/SY) Dependent on runoff flow rate and depth of groundwater Dependant on size (usually \$2.10/LF for fabric) BASO N/A (usually \$2.10/LF for fabric) N/A \$545 N/A \$625 N/A N/A Minimizing Effects of Highway De-icing (Maintenance) N/A Mulching and Mulch Anchoring (E&S-28) SY \$0.85 SY \$0.85 N/A (usually about \$4.50/SY) Dependent on pipe size Permanent/ Temporary Seeding (E&S-27) Riprap (E&S-7) Sy \$2.10 CY, SY \$37.50/CY Sand and Stone Bags (E&S-24) EA \$9.50 Sand Fence and Dune Stabilization (E&S-45) LF \$4.15 Sediment Basin (Size > 5 CY.) (E&S-21) CY \$27, includes maintenance	Dust Control (E&S-4)	TON	\$310 per ton of dust palliative
Geotextile Silt Fence (E&S-26) Gravel Access Approach (E&S-14) Gravel Access Approach (E&S-14) Gravel Filter Berm (E&S-13) Infiltration Trench Inlet Protection Fabric Drop (E&S-29) Inlet Protection Geotextile and Stone (E&S-30) Intercepting Ditch (E&S-11) Intercepting Ditch and Diversion Dike (E&S-12) Litter Control (Maintenance) Mulch Blankets and High Velocity Mulch Blankets (E&S-33) Mulching and Mulch Anchoring (E&S-28) Mulching and Mulch Anchoring (E&S-28) Outlet Protection Permanent/ Temporary Seeding (E&S-3) Pipe Drop (E&S-17) Plastic Sheets or Geotextile Cover (E&S-27) Sand and Stone Bags (E&S-24) Sediment Basin (Size > 5 CY.) (E&S-21) LF N/A (usually about \$4.40/SY) Dependent on runoff flow rate and depth of groundwater Dependant on size (usually \$2.10/LF for fabric) Intercepting Ditch and Diversion Dike (E&S-30) EA N/A \$80 STA \$545 STA \$625 STA \$625 STA \$625 STA \$625 STA \$625 SY \$0.85 Mulching and Mulch Anchoring (E&S-28) SY \$0.85 Mulching and Mulch Anchoring (E&S-28) SY \$0.20 Outlet Protection CY \$36.25 Permanent/ Temporary Seeding (E&S-3) Pipe Drop (E&S-17) Dependent on pipe size Plastic Sheets or Geotextile Cover (E&S-27) SY \$2.10 Signal Fence and Dune Stabilization (E&S-45) Sediment Basin (Size > 5 CY.) (E&S-21) CY \$27, includes maintenance	Employee Training		
Gravel Access Approach (E&S-14) Gravel Filter Berm (E&S-13) LF N/A (usually about \$4.40/SY) Dependent on runoff flow rate and depth of groundwater Dependant on size (usually \$2.10/LF for fabric) Inlet Protection Fabric Drop (E&S-29) Inlet Protection Geotextile and Stone (E&S-30) Intercepting Ditch (E&S-11) Intercepting Ditch and Diversion Dike (E&S-12) Litter Control (Maintenance) Minimizing Effects of Highway De-icing (Maintenance) Mulch Blankets and High Velocity Mulch Blankets (E&S-33) Mulching and Mulch Anchoring (E&S-28) Outlet Protection CY S36.25 Permanent/ Temporary Seeding (E&S-3) Pipe Drop (E&S-17) Plastic Sheets or Geotextile Cover (E&S-27) Sand and Stone Bags (E&S-24) Sand Fence and Dune Stabilization (E&S-45) Sediment Basin (Size > 5 CY.) (E&S-21) CY S27, includes maintenance	Energy Dissipators (E&S-19)	CY	\$37.50 (riprap)
Gravel Filter Berm (E&S-13) Infiltration Trench Inlet Protection Fabric Drop (E&S-29) Intercepting Ditch (E&S-11) Intercepting Ditch and Diversion Dike (E&S-12) Litter Control (Maintenance) Mulch Blankets and High Velocity Mulch Blankets (E&S-33) Mulching and Mulch Anchoring (E&S-28) Mulching and Mulch Anchoring (E&S-28) Permanent/ Temporary Seeding (E&S-3) Pipe Drop (E&S-17) Plastic Sheets or Geotextile Cover (E&S-27) Sand and Stone Bags (E&S-24) Sand Fence and Dune Stabilization (E&S-21) LiF N/A (usually about \$35/CY) Dependent on runoff flow rate and depth of groundwater Dependent on runoff flow rate and depth of groundwater Dependent on size (usually \$2.10/LF for fabric) Dependent on size (usually \$2.10/LF for fabric) Permanent (usually \$2.10/LF for fabric) Permanent/ Sand (usually \$2.10/LF for fabric) Permanent/ Temporary Seeding (E&S-28) Sy \$0.85 N/A Sy \$0.85 N/A (usually about \$4.50/SY) Dependent on pipe size Permanent/ Temporary Seeding (E&S-27) Sy \$2.10 Riprap (E&S-17) Plastic Sheets or Geotextile Cover (E&S-27) Sand and Stone Bags (E&S-24) Sediment Basin (Size > 5 CY.) (E&S-21) CY \$27, includes maintenance	Geotextile Silt Fence (E&S-26)	LF	\$1.90
Dependent on runoff flow rate and depth of groundwater Inlet Protection Fabric Drop (E&S-29) Inlet Protection Geotextile and Stone (E&S-30) Intercepting Ditch (E&S-11) Intercepting Ditch and Diversion Dike (E&S-12) Litter Control (Maintenance) Materials Management Plan Minimizing Effects of Highway De-icing (Maintenance) Mulch Blankets and High Velocity Mulch Blankets (E&S-33) Mulching and Mulch Anchoring (E&S-28) Sy \$0.20 Outlet Protection Permanent/ Temporary Seeding (E&S-3) Pipe Drop (E&S-17) Plastic Sheets or Geotextile Cover (E&S-27) Sand and Stone Bags (E&S-24) Sediment Basin (Size > 5 CY.) (E&S-21) Dependent on runoff flow rate and depth of groundwater Dependant on size (usually \$2.10/LF for fabric) Perpadant on size (usually \$2.10/LF for fabric) NA Sy \$0.85 SY \$0.85 SY \$0.85 SY \$0.85 SY \$0.20 Outlet Protection CY \$36.25 Dependent on pipe size Plastic Sheets or Geotextile Cover (E&S-27) Sy \$2.10 Riprap (E&S-7) Sy \$37.50/CY Sand and Stone Bags (E&S-24) Sediment Basin (Size > 5 CY.) (E&S-21) CY \$27, includes maintenance	Gravel Access Approach (E&S-14)	EA	N/A (usually about \$4.40/SY)
Infiltration Trench Inlet Protection Fabric Drop (E&S-29) Inlet Protection Geotextile and Stone (E&S-30) Intercepting Ditch (E&S-11) Intercepting Ditch and Diversion Dike (E&S-12) Litter Control (Maintenance) Materials Management Plan Minimizing Effects of Highway De-icing (Maintenance) Mulch Blankets and High Velocity Mulch Blankets (E&S-33) Mulching and Mulch Anchoring (E&S-28) Mulching and Mulch Anchoring (E&S-28) Outlet Protection Permanent/ Temporary Seeding (E&S-3) Plastic Sheets or Geotextile Cover (E&S-27) Riprap (E&S-7) Sand and Stone Bags (E&S-24) Sediment Basin (Size > 5 CY.) (E&S-21) EA Begendant on size (usually \$2.10/LF for fabric) Pependant on size (usually \$2.10/LF for fabric) Pasto (usually \$2.10/LF for fabric) Pependant on size (usually \$2.10/LF for fabric) FA \$0.85 STA \$6.25 N/A N/A MILCHING (Usually Source) SY \$0.85 SY \$0.20 Outlet Protection CY \$36.25 Permanent/ Temporary Seeding (E&S-3) Plastic Sheets or Geotextile Cover (E&S-27) SY \$2.10 Riprap (E&S-7) Sy \$37.50/CY Sand and Stone Bags (E&S-24) Sand Fence and Dune Stabilization (E&S-45) Sediment Basin (Size > 5 CY.) (E&S-21) CY \$27, includes maintenance	Gravel Filter Berm (E&S-13)	LF	
Inlet Protection Fabric Drop (E&S-29) Inlet Protection Geotextile and Stone (E&S-30) Intercepting Ditch (E&S-11) Intercepting Ditch and Diversion Dike (E&S-12) Litter Control (Maintenance) Materials Management Plan Minimizing Effects of Highway De-icing (Maintenance) Mulch Blankets and High Velocity Mulch Blankets (E&S-33) Mulching and Mulch Anchoring (E&S-28) Outlet Protection Permanent/ Temporary Seeding (E&S-3) Pipe Drop (E&S-17) Plastic Sheets or Geotextile Cover (E&S-27) Riprap (E&S-7) Sand and Stone Bags (E&S-24) Sediment Basin (Size > 5 CY.) (E&S-21) EA Bependant on size (usually \$2.10/LF for fabric) fabric) FA Bependant on size (usually \$2.10/LF for fabric) fabric) EA \$80 STA \$545 \$N/A \$625 N/A **Mulch **MA* **MUlching and Mulch Anchoring (E&S-28) SY \$0.85 **MUlching and Mulch Anchoring (E&S-28) **Dupendent on pipe size **Plastic Sheets or Geotextile Cover (E&S-27) Riprap (E&S-7) Sy \$2.10 CY, SY \$37.50/CY Sand and Stone Bags (E&S-24) EA \$9.50 Sand Fence and Dune Stabilization (E&S-45) LF \$4.15 Sediment Basin (Size > 5 CY.) (E&S-21) CY \$27, includes maintenance			
Inlet Protection Fabric Drop (E&S-29) Inlet Protection Geotextile and Stone (E&S-30) Intercepting Ditch (E&S-11) Intercepting Ditch and Diversion Dike (E&S-12) Litter Control (Maintenance) Materials Management Plan Minimizing Effects of Highway De-icing (Maintenance) Mulch Blankets and High Velocity Mulch Blankets (E&S-33) Mulching and Mulch Anchoring (E&S-28) Outlet Protection CY \$36.25 Permanent/ Temporary Seeding (E&S-3) Pipe Drop (E&S-17) Plastic Sheets or Geotextile Cover (E&S-27) Riprap (E&S-7) Sand and Stone Bags (E&S-24) Sand Fence and Dune Stabilization (E&S-21) EA \$80 \$80 \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$	Infiltration Trench		
Inlet Protection Geotextile and Stone (E&S-30)	Inlet Brots etion Febria Brow (F.S.C. 00)		
Intercepting Ditch (E&S-11) Intercepting Ditch and Diversion Dike (E&S-12) Litter Control (Maintenance) Materials Management Plan Minimizing Effects of Highway De-icing (Maintenance) Mulch Blankets and High Velocity Mulch Blankets (E&S-33) Mulching and Mulch Anchoring (E&S-28) Outlet Protection Permanent/ Temporary Seeding (E&S-3) Pipe Drop (E&S-17) Plastic Sheets or Geotextile Cover (E&S-27) Riprap (E&S-7) Sand and Stone Bags (E&S-24) Sand Fence and Dune Stabilization (E&S-25) STA \$545 STA \$545 STA \$545 STA \$545 STA \$545 STA \$545 STA \$545 STA \$625 STA \$625 N/A N/A MICHING ARCHORAGE N/A (USUBLE Protection Permanent \$4.50/SY) Dependent on pipe size SY \$2.10 CY, SY \$37.50/CY Sand and Stone Bags (E&S-24) SA \$9.50 Sand Fence and Dune Stabilization (E&S-45) LF \$4.15 Sediment Basin (Size > 5 CY.) (E&S-21) CY \$27, includes maintenance	, , ,	l	,
Intercepting Ditch and Diversion Dike (E&S-12) Litter Control (Maintenance) Materials Management Plan Minimizing Effects of Highway De-icing (Maintenance) Mulch Blankets and High Velocity Mulch Blankets (E&S-33) Mulching and Mulch Anchoring (E&S-28) Outlet Protection Permanent/ Temporary Seeding (E&S-3) Pipe Drop (E&S-17) Plastic Sheets or Geotextile Cover (E&S-27) Riprap (E&S-7) Sand and Stone Bags (E&S-24) Sand Fence and Dune Stabilization (E&S-21) SY \$6.25 N/A SO.85 N/A (usually about \$4.50/SY) Dependent on pipe size SY \$2.10 CY, SY \$37.50/CY SAND SAND SAND SAND SAND SAND SAND SAND	,	 	
Litter Control (Maintenance) Materials Management Plan Minimizing Effects of Highway De-icing (Maintenance) Mulch Blankets and High Velocity Mulch Blankets (E&S-33) Mulching and Mulch Anchoring (E&S-28) Outlet Protection Permanent/ Temporary Seeding (E&S-3) Pipe Drop (E&S-17) Plastic Sheets or Geotextile Cover (E&S-27) Riprap (E&S-7) Sand and Stone Bags (E&S-24) Sand Fence and Dune Stabilization (E&S-21) M/A N/A N/A N/A N/A N/A N/A Sole S N/A Sy \$0.85 SY \$0.20 CY \$36.25 Permanent/ Temporary Seeding (E&S-3) Dependent on pipe size SY \$2.10 CY, SY \$37.50/CY EA \$9.50 Sand Fence and Dune Stabilization (E&S-45) LF \$4.15 Sediment Basin (Size > 5 CY.) (E&S-21) CY \$27, includes maintenance			
Materials Management Plan Minimizing Effects of Highway De-icing (Maintenance) Mulch Blankets and High Velocity Mulch Blankets (E&S-33) Mulching and Mulch Anchoring (E&S-28) Outlet Protection Permanent/ Temporary Seeding (E&S-3) Pipe Drop (E&S-17) Plastic Sheets or Geotextile Cover (E&S-27) Riprap (E&S-7) Sand and Stone Bags (E&S-24) Sand Fence and Dune Stabilization (E&S-21) M/A N/A N/A N/A N/A N/A N/A N/A	, ,	1	\$625
Minimizing Effects of Highway De-icing (Maintenance) Mulch Blankets and High Velocity Mulch Blankets (E&S-33) Mulching and Mulch Anchoring (E&S-28) Outlet Protection Permanent/ Temporary Seeding (E&S-3) Pipe Drop (E&S-17) Plastic Sheets or Geotextile Cover (E&S-27) Riprap (E&S-7) Sand and Stone Bags (E&S-24) Sand Fence and Dune Stabilization (E&S-45) Sediment Basin (Size > 5 CY.) (E&S-21) M/A \$\text{\$N/A}\$ \$\text{\$N/A}\$ \$\text{\$0.85}\$ SY \$0.20 CY \$\text{\$36.25}\$ LB N/A (usually about \$4.50/SY) Dependent on pipe size CY, SY \$\text{\$2.10}\$ CY, SY \$\text{\$37.50/CY} Sand and Stone Bags (E&S-24) EA \$\text{\$9.50}\$ Sand Fence and Dune Stabilization (E&S-45) CY \$\text{\$27, includes maintenance}		 	
(Maintenance)N/AMulch Blankets and High Velocity Mulch Blankets (E&S-33)SY\$0.85Mulching and Mulch Anchoring (E&S-28)SY\$0.20Outlet ProtectionCY\$36.25Permanent/ Temporary Seeding (E&S-3)LBN/A (usually about \$4.50/SY)Pipe Drop (E&S-17)Dependent on pipe sizePlastic Sheets or Geotextile Cover (E&S-27)SY\$2.10Riprap (E&S-7)CY, SY\$37.50/CYSand and Stone Bags (E&S-24)EA\$9.50Sand Fence and Dune Stabilization (E&S-45)LF\$4.15Sediment Basin (Size > 5 CY.) (E&S-21)CY\$27, includes maintenance		N/A	
Mulch Blankets and High Velocity Mulch Blankets (E&S-33) Mulching and Mulch Anchoring (E&S-28) Outlet Protection Permanent/ Temporary Seeding (E&S-3) Pipe Drop (E&S-17) Plastic Sheets or Geotextile Cover (E&S-27) Riprap (E&S-7) Sand and Stone Bags (E&S-24) Sand Fence and Dune Stabilization (E&S-21) Sy \$0.20 CY \$36.25 Permanent/ Temporary Seeding (E&S-3) LB N/A (usually about \$4.50/SY) Dependent on pipe size SY \$2.10 CY, SY \$37.50/CY EA \$9.50 Sand Fence and Dune Stabilization (E&S-45) Sediment Basin (Size > 5 CY.) (E&S-21) CY \$27, includes maintenance		NI/A	
(E&S-33) SY \$0.85 Mulching and Mulch Anchoring (E&S-28) SY \$0.20 Outlet Protection CY \$36.25 Permanent/ Temporary Seeding (E&S-3) LB N/A (usually about \$4.50/SY) Pipe Drop (E&S-17) Dependent on pipe size Plastic Sheets or Geotextile Cover (E&S-27) SY \$2.10 Riprap (E&S-7) CY, SY \$37.50/CY Sand and Stone Bags (E&S-24) EA \$9.50 Sand Fence and Dune Stabilization (E&S-45) LF \$4.15 Sediment Basin (Size > 5 CY.) (E&S-21) CY \$27, includes maintenance		IN/A	
Mulching and Mulch Anchoring (E&S-28) Outlet Protection CY \$36.25 Permanent/ Temporary Seeding (E&S-3) Pipe Drop (E&S-17) Plastic Sheets or Geotextile Cover (E&S-27) Riprap (E&S-7) Sand and Stone Bags (E&S-24) Sand Fence and Dune Stabilization (E&S-45) Sediment Basin (Size > 5 CY.) (E&S-21) SY \$0.20 CY \$36.25 LB N/A (usually about \$4.50/SY) Dependent on pipe size SY \$2.10 CY, SY \$37.50/CY EA \$9.50 LF \$4.15 Sediment Basin (Size > 5 CY.) (E&S-21) CY \$27, includes maintenance		SY	\$0.85
Outlet Protection CY \$36.25 Permanent/ Temporary Seeding (E&S-3) Pipe Drop (E&S-17) Plastic Sheets or Geotextile Cover (E&S-27) Riprap (E&S-7) Sand and Stone Bags (E&S-24) Sand Fence and Dune Stabilization (E&S-45) Sediment Basin (Size > 5 CY.) (E&S-21) CY \$36.25 LB N/A (usually about \$4.50/SY) Dependent on pipe size SY \$2.10 CY, SY \$37.50/CY EA \$9.50 LF \$4.15 Sediment Basin (Size > 5 CY.) (E&S-21) CY \$27, includes maintenance	` '	SY	\$0.20
Pipe Drop (E&S-17) Plastic Sheets or Geotextile Cover (E&S-27) Riprap (E&S-7) Sand and Stone Bags (E&S-24) Sand Fence and Dune Stabilization (E&S-45) Sediment Basin (Size > 5 CY.) (E&S-21) Dependent on pipe size SY \$2.10 CY, SY \$37.50/CY EA \$9.50 LF \$4.15 CY \$27, includes maintenance		CY	
Pipe Drop (E&S-17) Plastic Sheets or Geotextile Cover (E&S-27) Riprap (E&S-7) Sand and Stone Bags (E&S-24) Sand Fence and Dune Stabilization (E&S-45) Sediment Basin (Size > 5 CY.) (E&S-21) Dependent on pipe size SY \$2.10 CY, SY \$37.50/CY EA \$9.50 LF \$4.15 CY \$27, includes maintenance	Permanent/ Temporary Seeding (E&S-3)	LB	N/A (usually about \$4.50/SY)
Plastic Sheets or Geotextile Cover (E&S-27) Riprap (E&S-7) Sy \$2.10 CY, SY \$37.50/CY Sand and Stone Bags (E&S-24) EA \$9.50 Sand Fence and Dune Stabilization (E&S-45) Sediment Basin (Size > 5 CY.) (E&S-21) CY \$27, includes maintenance			,
Riprap (E&S-7) Sand and Stone Bags (E&S-24) Sand Fence and Dune Stabilization (E&S-45) Sediment Basin (Size > 5 CY.) (E&S-21) CY, SY \$37.50/CY EA \$9.50 LF \$4.15 CY \$27, includes maintenance		SY	
Sand and Stone Bags (E&S-24) Sand Fence and Dune Stabilization (E&S-45) Sediment Basin (Size > 5 CY.) (E&S-21) EA \$9.50 LF \$4.15 CY \$27, includes maintenance	, ,		
Sand Fence and Dune Stabilization (E&S-45) LF \$4.15 Sediment Basin (Size > 5 CY.) (E&S-21) CY \$27, includes maintenance		t	
Sediment Basin (Size > 5 CY.) (E&S-21) CY \$27, includes maintenance			·
` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `	` ,	1	
	Sediment Trap (Size < 5 CY) (E&S-20)	EA	\$93.50 + \$13.50/CY for maintenance

BMP Name	Unit	Estimated COST per Unit
Slope Drain Surface (E&S-15)		Dependent on pipe size
Slope Roughening and Scarification (E&S-32)	HRS	\$140 per hour of dozer time
Sodding (E&S-5)	SY	\$3.10
Stream Relocation (E&S-23)	N/A	Dependent on technique
Street Sweeping (Maintenance)	N/A	
Temporary Bypass Channel (E&S-35)	CY	\$32 + Sand or stone bags, includes maintenance
Trees, Shrubs, Vines, and Groundcover (E&S-16)	EA	\$210
Turbidity Curtain (E&S-1)	LF	Dependent on structure size
Used Oil Recycling Program	N/A	
Vegetated Buffer at Watercourse (E&S-22)	N/A	
Vegetative Buffer Strips (E&S-6)	N/A	